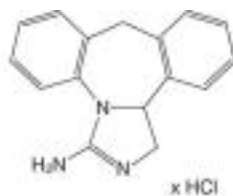


**ELESTAT - epinastine hydrochloride solution/ drops**  
Allergan, Inc.

**DESCRIPTION**

**ELESTAT**<sup>®</sup> (epinastine HCl ophthalmic solution) 0.05% is a clear, colorless, sterile isotonic solution containing epinastine HCl, an antihistamine and an inhibitor of histamine release from the mast cell for topical administration to the eyes.

Epinastine HCl is represented by the following structural formula:



$C_{16}H_{15}N_3HCl$  Mol. Wt. 285.78

**Chemical Name:**

3-Amino-9,13b-dihydro-1H-dibenz[c,f]imidazo[1,5-a]azepine hydrochloride

**Each mL contains:** **Active:** Epinastine HCl 0.05% (0.5 mg/mL) equivalent to epinastine 0.044% (0.44 mg/mL); **Preservative:** Benzalkonium chloride 0.01%; **Inactives:** Edetate disodium; purified water; sodium chloride; sodium phosphate, monobasic; and sodium hydroxide and/or hydrochloric acid (to adjust pH). **ELESTAT**<sup>®</sup> has a pH of approximately 7 and an osmolality range of 250 to 310 mOsm/kg.

**CLINICAL PHARMACOLOGY**

Epinastine is a topically active, direct  $H_1$ -receptor antagonist and an inhibitor of the release of histamine from the mast cell. Epinastine is selective for the histamine  $H_1$ -receptor and has affinity for the histamine  $H_2$ -receptor. Epinastine also possesses affinity for the  $\alpha_1$ -,  $\alpha_2$ -, and 5-HT<sub>2</sub>-receptors. Epinastine does not penetrate the blood/brain barrier and, therefore, is not expected to induce side effects of the central nervous system.

Fourteen subjects, with allergic conjunctivitis, received one drop of **ELESTAT**<sup>®</sup> ophthalmic solution in each eye twice daily for seven days. On day seven average maximum epinastine plasma concentrations of  $0.04 \pm 0.014$  ng/ml were reached after about two hours indicating low systemic exposure. While these concentrations represented an increase over those seen following a single dose, the day 1 and day 7 Area Under the Curve (AUC) values were unchanged indicating that there is no increase in systemic absorption with multiple dosing. Epinastine is 64% bound to plasma proteins. The total systemic clearance is approximately 56 L/hr and the terminal plasma elimination half-life is about 12 hours. Epinastine is mainly excreted unchanged. About 55% of an intravenous dose is recovered unchanged in the urine with about 30% in feces. Less than 10% is metabolized. The renal elimination is mainly via active tubular secretion.

*Clinical studies:* Epinastine HCl 0.05% has been shown to be significantly superior to vehicle for improving ocular itching in patients with allergic conjunctivitis in clinical studies using two different models: (1) conjunctival antigen challenge (CAC) where patients were dosed and then received antigen instilled into the inferior conjunctival fornix; and (2) environmental field studies where patients were dosed and evaluated during allergy season in their natural habitat. Results demonstrated a rapid onset of action for epinastine HCl 0.05% within 3 to 5 minutes after conjunctival antigen challenge. Duration of effect was shown to be 8 hours, making a twice daily regimen suitable. This dosing regimen was shown to be safe and effective for up to 8 weeks, without evidence of tachyphylaxis.

**INDICATIONS AND USAGE**

**ELESTAT**<sup>®</sup> ophthalmic solution is indicated for the prevention of itching associated with allergic conjunctivitis.

**CONTRAINDICATIONS**

**ELESTAT**<sup>®</sup> ophthalmic solution is contraindicated in those patients who have shown hypersensitivity to epinastine or to any of the other ingredients.

**WARNINGS**

**ELESTAT**<sup>®</sup> is for topical ophthalmic use only and not for injection or oral use.

**PRECAUTIONS**

**Information for Patients:**

Patients should be advised not to wear a contact lens if their eye is red. **ELESTAT**<sup>®</sup> ophthalmic solution should not be used to treat contact lens related irritation. The preservative in **ELESTAT**<sup>®</sup>, benzalkonium chloride, may be absorbed by soft contact lenses.

Contact lenses should be removed prior to instillation of **ELESTAT**<sup>®</sup> ophthalmic solution and may be reinserted after 10 minutes following its administration.

Patients should be instructed to avoid allowing the tip of the dispensing container to contact the eye, surrounding structures, fingers, or any other surface in order to avoid contamination of the solution by common bacteria known to cause ocular infections. Serious damage to the eye and subsequent loss of vision may result from using contaminated solutions.

Bottle should be kept tightly closed when not in use.

#### **Carcinogenesis, Mutagenesis, Impairment of Fertility:**

In 18-month or 2-year dietary carcinogenicity studies in mice or rats, respectively, epinastine was not carcinogenic at doses up to 40 mg/kg [approximately 30,000 times higher than the maximum recommended ocular human dose of 0.0014 mg/kg/day (MROHD) on a mg/kg basis, assuming 100% absorption in humans and animals].

Epinastine in newly synthesized batches was negative for mutagenicity in the Ames/*Salmonella* assay and *in vitro* chromosome aberration assay using human lymphocytes. Positive results were seen with early batches of epinastine in two *in vitro* chromosomal aberration studies conducted in 1980s with human peripheral lymphocytes and with V79 cells, respectively. Epinastine was negative in the *in vivo* clastogenicity studies, including the mouse micronucleus assay and chromosome aberration assay in Chinese hamsters. Epinastine was also negative in the cell transformation assay using Syrian hamster embryo cells, V79/HGPRT mammalian cell point mutation assay, and *in vivo/in vitro* unscheduled DNA synthesis assay using rat primary hepatocytes.

Epinastine had no effect on fertility of male rats. Decreased fertility in female rats was observed at an oral dose up to approximately 90,000 times the MROHD.

#### **Pregnancy: Teratogenic Effects: Pregnancy Category C**

In an embryofetal developmental study in pregnant rats, maternal toxicity with no embryofetal effects was observed at an oral dose that was approximately 150,000 times the MROHD. Total resorptions and abortion were observed in an embryofetal study in pregnant rabbits at an oral dose that was approximately 55,000 times the MROHD. In both studies, no drug-induced teratogenic effects were noted.

Epinastine reduced pup body weight gain following an oral dose to pregnant rats that was approximately 90,000 times the MROHD.

There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, **ELESTAT**<sup>®</sup> ophthalmic solution should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

#### **Nursing Mothers:**

A study in lactating rats revealed excretion of epinastine in the breast milk. It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when **ELESTAT**<sup>®</sup> ophthalmic solution is administered to a nursing woman.

#### **Pediatric Use:**

Safety and effectiveness in pediatric patients below the age of 3 years have not been established.

#### **Geriatric Use:**

No overall differences in safety or effectiveness have been observed between elderly and younger patients.

#### **ADVERSE REACTIONS**

The most frequently reported ocular adverse events occurring in approximately 1 - 10% of patients were burning sensation in the eye, folliculosis, hyperemia, and pruritus.

The most frequently reported non-ocular adverse events were infection (cold symptoms and upper respiratory infections) seen in approximately 10% of patients, and headache, rhinitis, sinusitis, increased cough, and pharyngitis seen in approximately 1 - 3% of patients.

Some of these events were similar to the underlying disease being studied.

#### **DOSAGE AND ADMINISTRATION**

The recommended dosage is one drop in each eye twice a day.

Treatment should be continued throughout the period of exposure (i.e., until the pollen season is over or until exposure to the offending allergen is terminated), even when symptoms are absent.

#### **HOW SUPPLIED**

**ELESTAT**<sup>®</sup> (epinastine HCl ophthalmic solution) 0.05% is supplied sterile in opaque white LDPE plastic bottles with dropper tips and white high impact polystyrene (HIPS) caps as follows:

5 mL in 10 mL bottle NDC 0023-9201-05

**Storage:** Store at 15° - 25° C (59° - 77° F). Keep bottle tightly closed and out of the reach of children.

**Rx Only**

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Irvine, CA 92612, U.S.A

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**www.allergan.com**

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Bottle Label – 5 mL

**ALLERGAN**

**INSPIRE®**

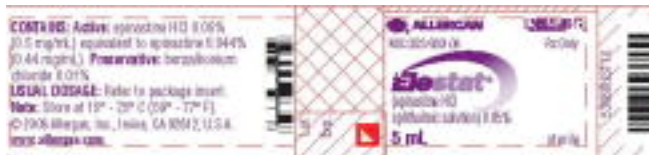
NDC 0023-9201-05

Rx Only

**Elestat®**

(epinastine HCl ophthalmic solution) 0.05%

**5 mL Sterile**



Carton Label – 5 mL

**ALLERGAN**

**INSPIRE®**

NDC 0023-9201-05

**Elestat®**

(epinastine HCl ophthalmic solution) 0.05%

**Rx Only**

**5 mL Sterile**



Sample Bottle Label – 1 mL

**ALLERGAN**

**INSPIRE®**

**SAMPLE**

Not for Retail Sale

Rx Only

**Elestat®**

(epinastine HCl ophthalmic solution) 0.05%

**1 mL Sterile**



Sample Carton Label – 1 mL

**ALLERGAN**

**INSPIRE®**

**Elestat®**

(epinastine HCl ophthalmic solution) 0.05%

**PROFESSIONAL SAMPLE**

Not for Retail Sale

Rx Only

**1 mL Sterile**

